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APPLICATION NO. FILING DATE		ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/092,767 03/07/2002		002	Dieter Kress	2146.GLE.PT	8734		
26986	7590 0	09/23/2004	·	EXAMINER			
	O'BRYANT C	FERGUSON,	FERGUSON, MICHAEL P				
136 SOUTH SUITE 700	I MAIN STREET	ľ	ART UNIT	PAPER NUMBER			
SALT LAK	E CITY, UT 84	1101	3679	3679			
				DATE MAILED: 09/23/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

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4		Application	No.	Applicant(s)		SI		
Office Action Summary		10/092,767		KRESS ET AL.		,		
		Examiner		Art Unit				
		Michael P. F	erguson	3679				
Period fo	The MAILING DATE of this communication Reply	on appears on the c	over sheet with the c	orrespondence ad	dress			
THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days openiod for reply is specified above, the maximum statutory or to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event ion. s, a reply within the statuto period will apply and will er statute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) days xpire SIX (6) MONTHS from tion to become ABANDONEI	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on							
·—	•	This action is nor	n-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the r								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) <u>6-21</u> is/are pending in the applic 4a) Of the above claim(s) is/are with Claim(s) is/are allowed.  Claim(s) <u>6-10 and 12-17</u> is/are rejected.  Claim(s) <u>11 and 18-21</u> is/are objected to.  Claim(s) are subject to restriction and applications.	thdrawn from cons						
Applicati	on Papers							
9)[	The specification is objected to by the Exa	aminer.						
10)⊠	The drawing(s) filed on <u>07 March 2002</u> is/	′are: a)⊠ accepte	d or b) objected to	by the Examiner	•			
	Applicant may not request that any objection to	• , ,	•	` '				
11)	Replacement drawing sheet(s) including the or The oath or declaration is objected to by t	•	-,,		` '			
Priority u	ınder 35 U.S.C. § 119							
a)[	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Beet the attached detailed Office action for	iments have been iments have been e priority documen Bureau (PCT Rule	received. received in Application ts have been receive 17.2(a)).	on No ed in this National	Stage			
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	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	4	) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/S	SB/08) 5	) Notice of Informal Pa		)-152)			

#### **DETAILED ACTION**

## Claim Objections

1. Claim 19 is objected to because of the following informalities:

Claim 19 (line 11) recites "when said at least one projecting shoulder". It should recite --when each said projecting shoulder--.

For the purpose of examining the application, it is assumed that appropriate correction has been made.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 6-9 and 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanderson (US 2,022,055).

As to claim 6, Sanderson discloses a device for connecting two tool parts **1,2,4** configured for receiving a threaded spindle, each of the tool parts having an associated threaded area, and wherein the device comprises:

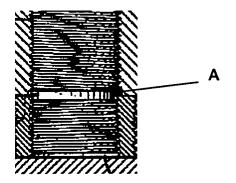
a threaded spindle 3 having a projecting shoulder 7, the outside diameter of which is slightly smaller than the interior diameter of the associated threaded area of one of the tool parts 1 to approximate the interior diameter such that the projecting shoulder serves to guide the threaded spindle into, and provide axial and angular alignment between, the two tool parts, the projecting shoulder having a centered (co-

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centrically centered with the axis of spindle 3) and axially inwardly extending opening 10 configured to receive a tool for effecting rotation of the threaded spindle when the projecting shoulder is inserted within a tool part (Figures 1 and 7).

As to claim 7, Sanderson discloses a device wherein a threaded spindle 3 has a first end 7 and a second end A and further comprises a projecting shoulder 7,A at each said end (Figure 1 reprinted with annotations below).



As to claim 8, Sanderson discloses a device wherein the outside diameter of a projecting shoulder **7,A** at each end **7,A** is slightly smaller than the interior threads of an associated threaded area of a corresponding tool part **1,2,4** to approximate the interior threads thereof to guide a threaded spindle **3** into, and provide axial and angular alignment between, the two tool parts (Figure 1).

As to claim 9, Sanderson discloses a device wherein a threaded spindle 3 has two threaded sections 5,6, each being threaded in a direction opposite the other and assigned to corresponding threaded areas of tool parts 1,2,4 (Figure 1).

As to claim 12, Sanderson discloses a connection for connecting two tool pieces, the connection having:

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a first tool piece 1 having a threaded area for receiving a first threaded section of a threaded spindle;

a second tool piece **2,4** having a threaded area for receiving a second threaded section of a threaded spindle;

a threaded spindle 3 having a first threaded sections 5 for engaging the threaded area of the first tool piece and a second threaded section 6 for engaging the threaded area of the second tool piece, and wherein the threaded spindle has a shoulder 7 extending beyond one of the threaded sections, the projecting shoulder having an outer diameter slightly smaller than the interior diameter of the threaded area of the first tool piece for approximating the interior diameter of the threaded area to thereby guide the threaded section into the threaded area and provide axial and angular alignment of the first and second tool pieces, the projecting shoulder having a centered (co-centrically centered with the axis of spindle 3) and axially inwardly extending opening 10 configured for receiving a tool for effecting rotation of the threaded spindle via the projecting shoulder when inserted in the first or second tool piece (Figures 1 and 7).

As to claim 13, Sanderson discloses a connection wherein a second tool piece **2,4** partially nests within a first tool piece **1** (Figure 1).

As to claim 14, Sanderson discloses a connection wherein a threaded spindle 3 has a opposing ends 7,A and has a projecting shoulder 7,A at each end (Figure 1).

As to claim 15, Sanderson discloses a connection wherein the outside diameter of each projecting shoulder **7,A** at each end **7,A** is slightly smaller than the interior threads of an associated threaded area of a corresponding tool piece **1,2,4** to

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approximate the interior threads to guide a threaded spindle 3 into place and to provide axial and angular alignment between first and second tool pieces 1,2,4 (Figure 1).

As to claim 16, Sanderson discloses a connection wherein threaded sections **5,6** of a threaded spindle **3** have opposing orientations and are assigned to corresponding threaded areas of tool pieces **1,2,4** (Figure 1).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sanderson.

As to claim 10, Sanderson fails to disclose a device wherein threaded sections of a threaded spindle have differing outside diameters for being correspondingly adapted to the differing interior diameters of two tool parts.

The applicant is reminded that a change in the size of a prior art device is a design consideration within the skill of the art. In re Rose, 220 F.2d 459, 105 USPQ 237 (CCPA 1955). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify a device as disclosed by Sanderson to have threaded sections of a threaded spindle having differing outside diameters for being correspondingly adapted to the differing interior diameters of two tool parts as such practice is a design consideration within the skill of the art.

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As to claim 17, Sanderson fails to disclose a connection wherein threaded sections of a threaded spindle have differing outside diameters and threaded areas of tool pieces have correspondingly adapted interior diameters.

The applicant is reminded that a change in the size of a prior art device is a design consideration within the skill of the art. In re Rose, 220 F.2d 459, 105 USPQ 237 (CCPA 1955). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify a connection as disclosed by Sanderson to have threaded sections of a threaded spindle having differing outside diameters and threaded areas of tool pieces having correspondingly adapted interior diameters as such practice is a design consideration within the skill of the art.

## Allowable Subject Matter

- 6. Claims 11 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter:

As to claim 19, Sanderson discloses the claimed device with the exception of wherein each of the projecting shoulders is configured with an axially inwardly extending opening for receiving a tool for effecting rotation of the threaded spindle when each projecting shoulder is inserted within a tool part.

The prior art neither teaches nor suggests a device comprising a threaded spindle having a first end, a second end and a projecting shoulder extending from each

each of the first end and the second end, each of the projecting shoulders being configured with an axially inwardly extending opening for receiving a tool for effecting rotation of the threaded spindle when each projecting shoulder is inserted within a tool part.

It would not have been obvious to one having ordinary skill in the art at the time the invention was made to modify a device as disclosed by Sanderson to have the above mentioned elements as the prior art neither teaches nor suggests such modifications.

#### Response to Arguments

8. Applicant's arguments filed July 19, 2004 have been fully considered but they are not persuasive.

As to claims 6 and 12, Attorney argues that:

Sanderson does not disclose a device comprising a threaded spindle having at least one projecting shoulder having a centered and axially inwardly extending opening configured to receive a tool for effecting rotation of the threaded spindle when the projecting shoulder is inserted within a tool part.

Examiner disagrees. As to claims 6 and 12, Sanderson discloses a device comprising a threaded spindle 3 having a projecting shoulder 7 having a centered (cocentrically centered with the axis of spindle 3) and axially inwardly extending opening 10 configured to receive a tool for effecting rotation of the threaded spindle when the projecting shoulder is inserted within a tool part (Figure 1).

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#### Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Ferguson whose telephone number is (703)308-8591. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703)308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Buşiness Center (EBC) at 866-217-9197 (toll-free).

MPF

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